Schedule 1: Design, Drawings and Documentation			
	Name of STP : Anjanapura-2 under BDA Layout		
Item	**Description**	**Quantity**	**Total Price (including GST) INR**
1.1	**Process Design and drawings as defined in Volume 2 of Bidding Document**		
1.1.1	Concept report defining TSPS & STP. Flow charts and process design, Hydraulic Flow diagram, P&IDs, Mass Balance, Plant water & drain Philosophy, Service water usage plan	LS	
1.1.2	Site Layout Plan, Bore hole location plan for entire plant, Civil & Mechanical General Arrangement drawings, Geotechnical survey,Topographical Survey, Electrical resistivity test report	LS	
1.1.3	Single Line diagrams and Electrical drawings complete	LS	
1.1.4	Instrumentation, Control & Automation systems, Functional design specifications, System Architecture drawings complete	LS	
1.1.5	Any other necessary document which Bidder feels necessary for project completion needs to be added including all essential Investingation, Model Study (if required) ,etc. required to complete the Works	LS	
Sub Total of 1.1			**0.00**
1.2	**Civil, Architectural & Structural Designs and Drawings as defined in Volume 2 of Bidding Document**		
	TSPS Works		
1.2.1	Inlet manhole & chamber, Coarse Screen channels, Effluent chamber, Overflow chamber, Wetwell with superstructure, Valve & Flowmeter chambers, Thrust block and Anchor blocks etc.	LS	
	Inlet Works		
1.2.2	Inlet Chamber, Fine Screen Channel, Screen Effluent/ Grit Basin Distribution Channel, chambers, RCC Staircase, etc.	LS	
1.2.3	Vortex Grit Basins & chamber, Grit Basin effluent channel, Grit Classifier arrangement,chambers, RCC Staircase, etc.	LS	
1.2.4	Parshall Flume, drop chamber, connecting arrangement from Inlet works to Areation basin, RCC Staircase etc	LS	
	SBR BASINS		
1.2.5	SBR Basin flow distribution channel, RAS & SAS inlet arrangement, Valve & flowmeter chamber, Overflow & Bypass chamber, scum collection and pumping system, RCC Staircase, etc.	LS	
	BLOWER BUILDING		
1.2.6	Process Air Blower Building, Valve chamber, Supports for air piping,RCC Stair case etc.	LS	
1.2.7	Not Used	LS	
1.2.8	Not Used	LS	
	Chlorine Contact Tank		
1.2.9	Chlorine Contact Tank, Inlet chamber, distribution chamber, Effluent Channel/pipe, flowmeter chamber, RCC Staircase, Outfall Structure, etc	LS	
1.2.10	Chlorine and Alum building etc and any other chemicals required as per the Process design, etc.	LS	
1.2.11	Plant water & Treated water storage sump / Pump Station and inlet flow arrangement, chamber etc.	LS	
	Disc Filter		
1.2.12	Disc Filter Influent chamber, Disc Filter units and Disc Filter Effluent channel, Backwash water collection arrangement etc.	LS	
	SLUDGE DEWATERING		
1.2.13	Sludge Dewatering Building including sludge storage, chambers etc.	LS	
1.2.14	Dewatering Feed sump and Pumping Station, chambers etc.	LS	
1.2.15	Scum Pit,Sump and Pump Station, Chamber etc.	LS	

Schedule 1: Design, Drawings and Documentation			
	Name of STP : Anjanapura-2 under BDA Layout		
Item	**Description**	**Quantity**	**Total Price (including GST) INR**
1.2.16	Plant Drain Sump and Pump Station, Chamber etc.	LS	
	SUBSTATION FOR STP & TSPS		
1.2.17	Switch gear room, Electrical Sub station	LS	
1.2.18	Transformer yard	LS	
	UTILITY BUILDINGS		
1.2.19	Plant D.G. Room	LS	
1.2.20	Administration Cum Laboratory Building & SCADA Building (Two Floors) (For SCADA control room ,refer Particular ICA requirements)	LS	
1.2.21	Guard Room (Security Room)	LS	
	OTHER UTILITIES		
1.2.22	Roads & drains , Internal roads and landscaping, Culverts, Name boards for units in kannada/ english	LS	
1.2.23	Approach Road to STP, TSPS	LS	
1.2.24	Parking Shed, piles, gates, GP2, Grouting for machine	LS	
1.2.25	Compound Wall with gates, Chain link fencing	LS	
1.2.26	Ground Improvement Plan, Site grading	LS	
1.2.27	Nalla & flow diversion etc.	LS	
1.2.28	Gabion wall, Site retaining structure and pile foundation , electric cable trenches inside STP site.	LS	
1.2.29	Additional Backfill for entire Project including approach road (if required)	LS	
1.2.30	Tree Plantation	LS	
1.2.31	Any other works which Bidder feels necessary for project completion needs to be added including all essential Investigation, etc. required to complete the Works under 1.2	LS	
	Sub Total of 1.2		**0.00**
1.3	**Mechanical Design, Drawings,and Documentation as defined in Volume 2 of Bidding Document**		
	TSPS		
1.3.1	Inlet & Effluent chambers, Overflow chamber, Screen channels with necessary screening arrangements (Trash & Coarse screen), Conveyors, Screening collection arrangement, Sluice gates, weir gates and Inlet & Overflow piping with fittings and Hardware with piping and all allied works complete	LS	
1.3.2	Wet well with superstructure & Pumping system , Submersible pumps with suitable valves and piping arrangements and Hardware and all allied works complete	LS	
1.3.3	Material Handling system with suitable Cranes and hoist arrangements with Hardware and all allied works complete	LS	
1.3.4	Miscellaneous works such as flushing arrangements, dewatering and ventilation system including Hardware all allied works complete	LS	
	STP		
1.3.5	Inlet chamber and Fine Screen Channel, Overflow chamber, Screen Effluent/ Grit Basin Distribution Channel with Sluice gates, weir gates, Stop logs, Inlet & Overflow piping with fittings, flushing arrangement, including Hardware and all allied works complete	LS	
1.3.6	Screen chamber with effluent channel, drain piping and Fine screening, Conveyors, Screening collection arrangement, flushing arrangement, including Hardware and all allied works complete	LS	
1.3.7	Vortex Grit mechanism with grit classifier & washing mechanism, Conveyors, Grit collection arrangement, sluice gates, Stop logs, flushing arrangement, including Hardware and all allied works complete	LS	
1.3.8	SBR Basin with Aeration arrangement with piping, Sluice gates and weir gates, Stop logs, flushing arrangement, scum collection and pumping system, including Hardware and all allied works complete	LS	
1.3.9	Not Used	LS	

Schedule 1: Design, Drawings and Documentation			
	Name of STP : Anjanapura-2 under BDA Layout		
Item	**Description**	**Quantity**	**Total Price (including GST) INR**
1.3.10	Not Used	LS	
1.3.11	Not Used	LS	
1.3.12	Aeration Zone with RAS and SAS Pumpsets, Retrievable type Fine Bubble Diffuser Aeration system arrangement, Pipe grid, Drop legs, piping arrangements, Drain pumpsets, EOT, sluice gates, flushing arrangement, Material Handling Equipment, piping and valves, mixers including Hardware and all allied works complete	LS	
1.3.13	Process Air Blower Building with blowers, Air Coolers, EOT Crane, Service water & blower cooling arrangement, Piping and valves, Material Handling Equipment, Ventilation system, Hardware and all allied works complete	LS	
1.3.14	Alum solution preparation and dosing which includes minimum of preparation and dosing pumpsets to feed maximum average doses efficiently, agitators, mixing arrangement, flushing arrangement, Channel mounted mixer for alum mixing,Material Handling Equipment, Ventilation system, Hardware with piping and all allied works complete including bulk storage tank and containment structure in case of a spill.	LS	
1.3.15	Not Used	LS	
1.3.16	Not Used	LS	
1.3.17	Inlet & Outlet piping, Disc Filter Influent & Effluent chamber sluice gates, Weir gates, Stoplogs, Disc Filter units with chemical cleaning arrangements.Backwash water system and collection arrangement etc and all allied works complete.	LS	
1.3.18	Material pumping station general arrangement,Pumpsets, flushing arrangement, Material Handling Equipment, Ventilation system, Hardware with piping, Valves and all allied works complete	LS	
1.3.19	Chlorine & any other chemical dosing arrangement, spill containment bund, flushing arrangement, Material Handling Equipment, Ventilation system, Hardware with piping and all allied works complete	LS	
1.3.20	Inlet & Outlet piping, Chlorine Contact Tank & Outfall structure with sluice gates, weir gates, Stop logs, mixing arrangement, hardware with piping, valves and all allied works complete, Disk filters.	LS	
1.3.21	Dewatering feed pumping system, Submersible mixer arrangement, Sludge feed Pumpsets, flushing arrangement, Ventilation system, Material Handling Equipment and Hardware with piping, valves and all allied works complete	LS	
1.3.22	Polyelectrolyte dosing systems for sludge dewatering, stirrer arrangement, feeding arrangement, Preparation & Storage tanks, Dosing Pumpsets, flushing arrangement, Material Handling Equipment, Ventilation system, Hardware with piping and all allied works complete	LS	
1.3.23	Sludge dewatering units, sludge cake conveying system with cut gate arrangement and hopper & Collection system, Material Handling Equipment for sludge dewatering units, flushing arrangement, Ventilation system, Hardware with piping and all allied works complete	LS	
1.3.24	Inlet & Outlet piping, Plant Drain Sump and Pump Station, Submersible pumpsets, Material Handling Equipment,, Hardware with piping, Valves and all allied works complete	LS	
1.3.25	Inlet & Outlet piping, Treated water storage Pump Station, Submersible pumpsets, Material Handling Equipment, Hardware with piping, Valves and all allied works complete	LS	
1.3.26	Inlet & Outlet piping, Plant water Pump Station, Submersible pumpsets, Material Handling Equipment, Sluice gates, Weir gates, Stop log gates,Hardware with piping, Valves, All Plant Piping works and all allied works complete	LS	
1.3.27	Flushing arrangement for all chemical & Sludge Material Handling systems, Dewatering Pumps including piping and all allied works in all sludge & Chemical Material Handling pump houses complete	LS	
1.3.28	Service water system including pumps with Hardware, piping, Valves and all allied works complete	LS	

Schedule 1: Design, Drawings and Documentation			
	Name of STP : Anjanapura-2 under BDA Layout		
Item	**Description**	**Quantity**	**Total Price (including GST) INR**
1.3.29	Fire Fighting system for the whole plant (inclusive of fire alarm,fire detection,fire extinguishing system), Tools Kit, Air conditioning system for SCADA control room & Administration and Laboratory Building and all allied works complete.	LS	
1.3.30	Any other works which Bidder feels necessary for project completion needs to be added including all essential Investigation, etc. required to complete the Works under 1.3	LS	
	Sub Total of 1.3		**0.00**
1.4 Electrical Design, Drawings and Documents as defined in Volume 2 of Bidding Documents			
1.4.1	Electrical System Design, Drawings & Documentation as per General Requirements of the Bid document for the followings : i) Single Line Diagram (HT & LT System) ii) Sizing calculations for 11kV Switchgear Panel, Transformers, DG Set, LT Panels (PCC/MCC), HT/LT Cables, Earthing etc. iii) Electrical Equipment Layout and GA Drawing iv) Cabling Layout for the Plant v) Lighting, Earthing and Lightning layout vi) Guaranteed Technical particulars (GTP) of all equipment vII) Any other necessary document which bidder's feels necessary for project completion needs to be added including all calculations etc. required to complete the Works.	LS	
	Sub Total of 1.4		**0.00**
1.5 Instrumentation, Control, and Automation Design, Drawings and Documentation as defined in Volume 2 of Bidding Document			
1.5.1	Instrumentation, Control, Automation inclusive of complete field instrumentation,Real time online water quality monitoring systems ,Auto samplers,PLC based SCADA system-Functional design specifications (FDS) for Instrumentation ,FDS for Control & Automation systems,all other equipment required as per specifications,FAT Reports,SAT reports,Interoperability test reports, and all allied works complete as required under the specifications.	LS	
1.5.2	MIS system- (MIS system shall provide a digital platform for monitoring the project status remotely for all STP's and ISPS under this contract, inclusive of online document management system. The MIS system shall enable real time project status monitoring and shall provide a real time project dashboard to BWSSB and Project Management Consultants)	LS	
	Sub Total of 1.5		**0.00**
1.6 Tests on Completion of Design-Build as defined in Volume 2 of Bidding Document			
1.6.1	For Effluent Quality	LS	
1.6.2	For Sludge Quality	LS	
	Sub Total of 1.6		**0.00**
1.7 Tests prior to Contract Completion as defined in Volume 2 of Bidding Document			
1.7.1	For Effluent Quality	LS	
1.7.2	For Sludge Quality	LS	

Schedule 1: Design, Drawings and Documentation			
	Name of STP : Anjanapura-2 under BDA Layout		
Item	**Description**	**Quantity**	**Total Price (including GST) INR**
Sub Total of 1.7			**0.00**
1.8 As Built Drawings			
1.8.1	Civil, Structural & Building Works and piping	LS	
1.8.2	Mechanical systems	LS	
1.8.3	Electrical systems	LS	
1.8.4	Instrumentation systems	LS	
1.8.5	Control and Automation System	LS	
Sub Total of 1.8			**0.00**
1.9 Other Documentation			
1.9.1	Design Report of STP and other works	LS	
1.9.2	Surge Analysis of Pumping Mains,SAT & FAT reports	LS	
1.9.3	Concept of Civil Design Report	LS	
1.9.4	Fault level calculations and Load flow studies & SCADA Manual	LS	
1.9.5	Operation & Maintenance Manuals	LS	
1.9.6	Training Programme and Manuals	LS	
1.9.7	Energy Optimization Plan	LS	
Sub Total of 1. 9			**0.00**
1.10 Bidder shall list here details of additional items required			
		LS	
Sub Total of 1.10			**0.00**
Total Schedule 1 (Sub 1.1+1.2+1.3+1.4+1.5+1.6+1.7+1.8+1.9+1.10) Total Carried to Schedule 7, Grand Summary			**0.00**
	Note: All quantities in lumpsum		
	Signature of Bidder		
	Name & Designation		
	Company		